

HUMAN NMDAR1 cDNAs

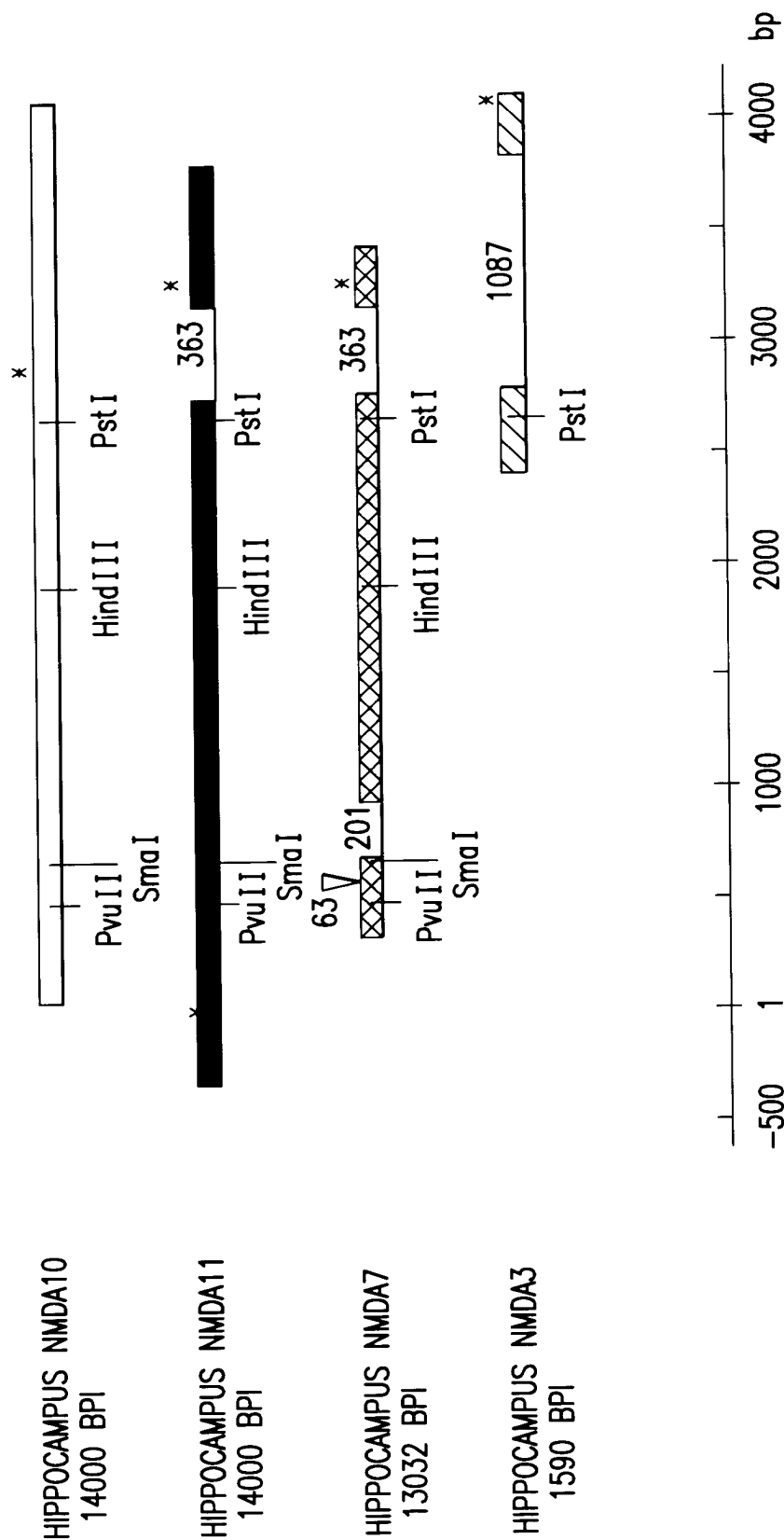


FIG.1

HUMAN NMDAR1A CONSTRUCTS

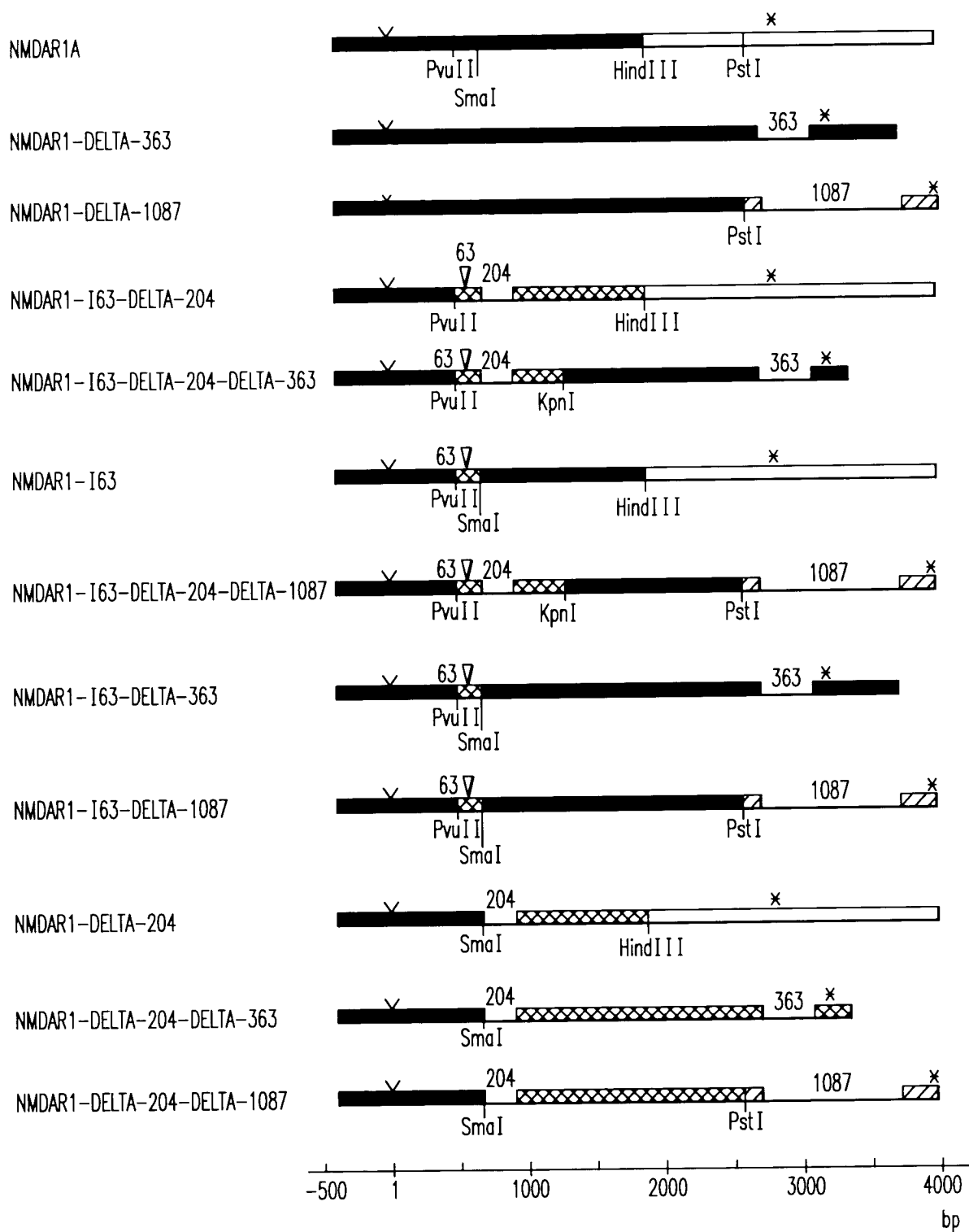


FIG.2

NUCLEOTIDE SEQUENCE OF THE HUMAN MDARIA RECEPTOR

1 ccagcgggc gttcggagct gtgcgcggcc ccgcttcagc acccgggaca ggcgcggccg cgtgggactg agcgcggagc cccgcgcac gcttcagccc
101 ccccttcctc ggcgcagctc ccgggaccgc cgcctccggg gagcgtggc gtccgcggcc cgcggggccg ggcgagcgca ggcggcccg gaagcccccgc
- START
201 gggggatgcg ccgagggccc cgcgttcgcg ccgcgcagcg ccagcccgcc ggcgcggacc cATGAGCACC ATGGGCTGCG TGACGCTGCG CCTGCTGTTT
301 TCTTGCTCG TCGCCCTGCG CGCGTGGAC CCCAAGATCG TCAACATTGG CGCGGTGCTG AGCAGCGCGA AGCAGCGACA GATGTTCCGC GAGGCGGTGA
401 ACCAGGCCAA CAAGCGGCAC GGCTCCTGGA AGATTGAGCT CAATGCCACC TCGTCAAGC ACAAGCCCAA CGCCATCCCG ATGGCTCTGT CCGTGTGCGA
501 GGACCTCATC TCCAGCCAGG TCTAGCCCAT CCTAGTAGC CATCCACCTA CCGCCCAAGCA CCACTTCACT CCCACCCCTG TCTCTACAC AGCGGCTTC
601 TACCGCATAC CCGTGTGCG GCTGACCACC CGCATGTCCA TCTACTGGA CAAGAGCATC CACCTGAGCT TCGTGGCCAC CGTGGCGCCC TACTCCACCC
Pvu II
701 AGTCCAGCGT GTGGTTTGAG ATGATCCGTG TCTACAGCTG GAACACATC ATCTGTGCTG TCAGCGAGCA CCAAGAGGCG CGGCGGCGTC AGAAAGCCCT
-63 bp INSERT
801 GGAGAGCGTG CTGGAGGAGC GTGAGTCCAA GGCAGAGAG GTGCTGCAGT TTGACCCAGG GACCAAGAAC GTACGGGCCC TGCTGATGGA GCGGAAGAG
Sma I
901 CTGGAGGCCC GGGTCATCAT CCTTCTGCC AGCGAGGAGC ATGCTGCCAC TGTATCCCG GCAGCGCGCA TGCTGAACAT GACGGGCTCC GGGTACGTGT
BgIII
1001 GCGTGTGCGG CGAGCGCGAG ATCTCGGGGA AGCCCTGCG CTAGCCCCCA GACGGCATCC TCGGGCTGCA GCTCATCAAC GGCAAGAAGC AGTCGSCCA
1101 CATCAGCGAC GCGTGGGCG TGGTGGCCA GCGGTGCCAC GAGCTCTCG AGAAGGAGAA CATACCGAC CGCGCGCGG GCTGGTGGG CAACACCAAC
1201 ATCTGAAGA CCGGGCGGCT CTTCAGAGA GTGCTGATGT CTTCGAAGTA TCGGATGGG GTGACTGGT GCGTGGAGTT CAATGAGGAT GGGGACCGGA
1301 AGTTGCCCAA CTACAGCATC ATGAACCTGC AGAACGCAA GCTGGTCAA GTGGCATCT ACAATGGCAC CCAGTTCATC CCTAATGACA GGAAGATCAT
Kpn I
1401 CTGGCCAGCG GGAGAGACAG AGAGCCCTCG AGGGTACCAG ATGTCCACCA GACTGAAGAT TGTACGATC CACCAGAGC CCTTGTGTA CGTCAAGCCC
1501 ACGCTGAGTG ATGGACATG CAAGGAGGAG TTCACAGTCA ACGGCGACCC AGTCAAGAG GTGATCTGCA CGGGGCCCAA CGACACGTCG CCGGGCAGCC
1601 CCGCCACAC GGTGCTCAG TGTGTAGG GCTTTTGCAT CGACCTGCTC ATCAAGCTGG CAGGACCAT GAACTTACCC TACGAGGTGC ACCTGGTGGC
1701 AGATGGCAAG TTGGGCACAC AGGAGCGGCT GAACAAGCGT GAACAAGAG AGTGAATGG GATGATGGC GAGCTGTCA GCGGGCAGGC AGACATGATC
1801 GTGGCGCGC TAACCATAAA CAACGAGCGC GCGCAGTACA TCGAGTTTC CAAGCCCTC AGTACCAGG GCGTGAATAT TCTGGTCAAG AAGGAGATTG
1901 CCGGAGGAC GCTGGACTCG TTCATGACG CGTTCAGAG CACACTGTG GTGCTGGTGG GCGTGTGGT GCAGGTGGTG GCGGTGATCC TGTACCTGCT
2001 GGACCGCTTC AGCCCTTTC GCGGTTCAA GGTGAACAGC GAGGAGGAGG AGGAGAGCG ACTGACCCCTG TCCTGGGCA TGTGTTCTC CTGGGGGCTC

204 bp
DELETION

FIG.3A

HindIII

2101 CTGCTAACT CCGGCATGG GGAAGCGCC CCCAGAAGCT TCTCAGCGCG CATCTGGGC ATGGTGGG CCGGCTTTGC CATGATCATC GTGGCTCCT
2201 ACACCGCCAA CCTGGCGGC TTCTGGTGC TGGACCGGC GAGGAGCGC ATCAGCGCA TCAAGACCC TCGGCTGAG AACCCCTGG ACAAGTTTAT
2301 CTACGCCACG GTGAGCAGA GCTCCGTGA TATCTACTT CCGCGCCAGG TGAAGCTGAG CACCATGTAC CGGCATATGG AGAAGCACAA CTACGAGAGT
2401 GCGCGGAGG CCATCCAGG CGTGAGAGC AACAGCTGC ATGCCTTTCAI CTGGGACTCG GCGGTCTGG AGTTGAGGC CTGCGAGAAG TCGGACCTGG
2501 TGACGACTGG ACAGCTGTT TTCCGCTGG CTTTCGGCAT AGGATGCGC AAGACAGCC CTTGGAAGCA GAACTCTCC CTGTCCATCC TCAAGTCCCA
2601 CGAGAAATGGC TTCATGGAAG ACCTGGAAC GACGTGGGT CCGTATCAGG AATGTGACTC GCGCAGCAAC GCGCCTGCGA CCGTTACTTT TGAGAACATG
2701 GCGGGGTCT TCATGCTGT AGCTGGGCG ATCGTGGCG GATCTTCTT GATTTTCATC GAGATTGCTT ACAAGCGCA CAAGGATGCT CCGCGGAAGC

Pst I₁

2801 AGATGAGCT GGCCTTTGCC GCGGTTAAG TGTGGCGAA GAACTGCGG GATAGAAAGA GTGGTAGGC AGAGCCTGAC CCTAAAAGA AAGCCACATT
2901 TAGGGCTATC ACCTCCACC TGGCTTCCAG CTTCAAGAG CTTAGTCTT CCAAGACAC GAGCACCGCG GGTTGAGCG GTGCTTTGCA AAACCAAAA
3001 GACACAGTGC TCCCGCGACG CCTATTGAG AGGAGGAGG GCGAGCTGCA GTGTGTTCC GTCATAGG AGAGCTGAGA CTCCEGCCC GCCCTCTCT
3101 GCGCCCTCC CCGCAGCAG ACAGACAGC GAGCGGACA GCGCGCGC CCGCGAGG CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC
3201 CTCGCCAGG CTGCGCTGC CCGCGCGG GTTGGCGG TGCGCGTC ACCCGTCC GCGCGCGC GTGCGCGC CGLGGGCTA CCGGCGCCT
3301 TGCTGTGA TTTCTATTT GCGCGAGT CCGCGAGT ATATCAGG CCGCGAGC CTCGAGTC CCGCGAGT CCGCGAGT CCGCGAGT
3401 GCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC
3501 CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC
3601 GAGTGGGTG GCGAGGCGG CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC
3701 TTGAGGAGA GCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC
3801 GCGCTCTCT GCGCGAGT CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC
3901 GCGCTCTCT GCGCGAGT CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC
4001 CCGCGAGC GCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC
4101 CCGCGAGC GCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC
4201 CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC CCGCGAGC

363 bp
DELETION

1087 bp
DELETION

FIG.3B

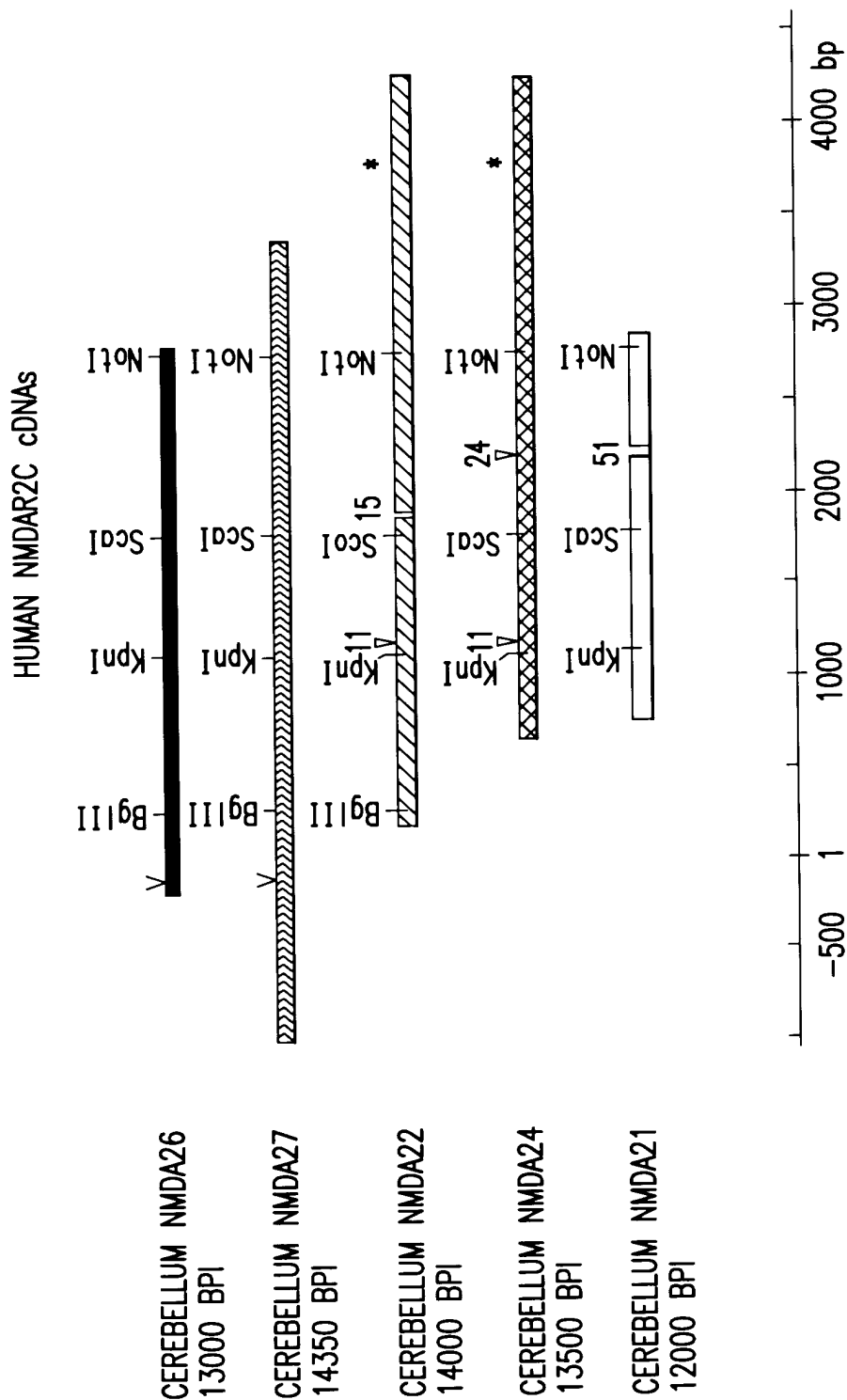


FIG.4

CONSTRUCTION OF THE FULL-LENGTH HUMAN NMDAR2C cDNAs

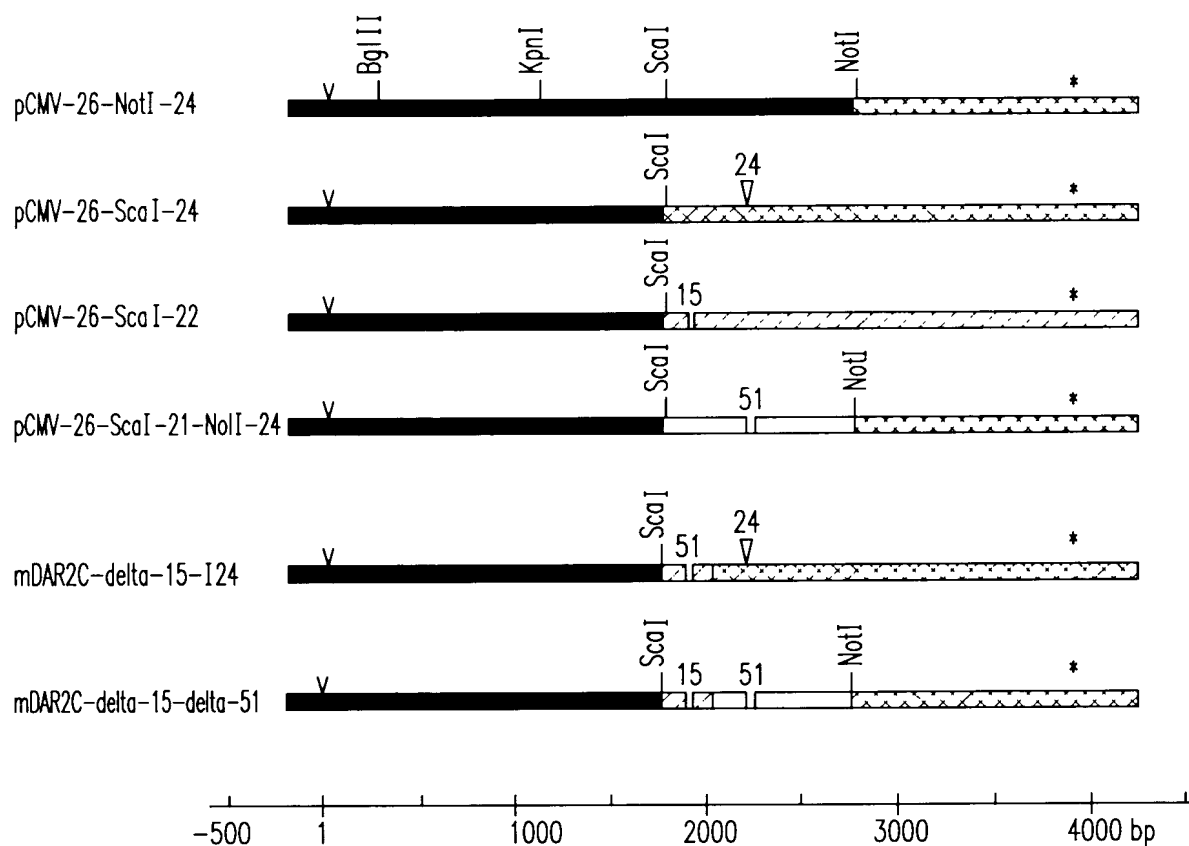


FIG.5

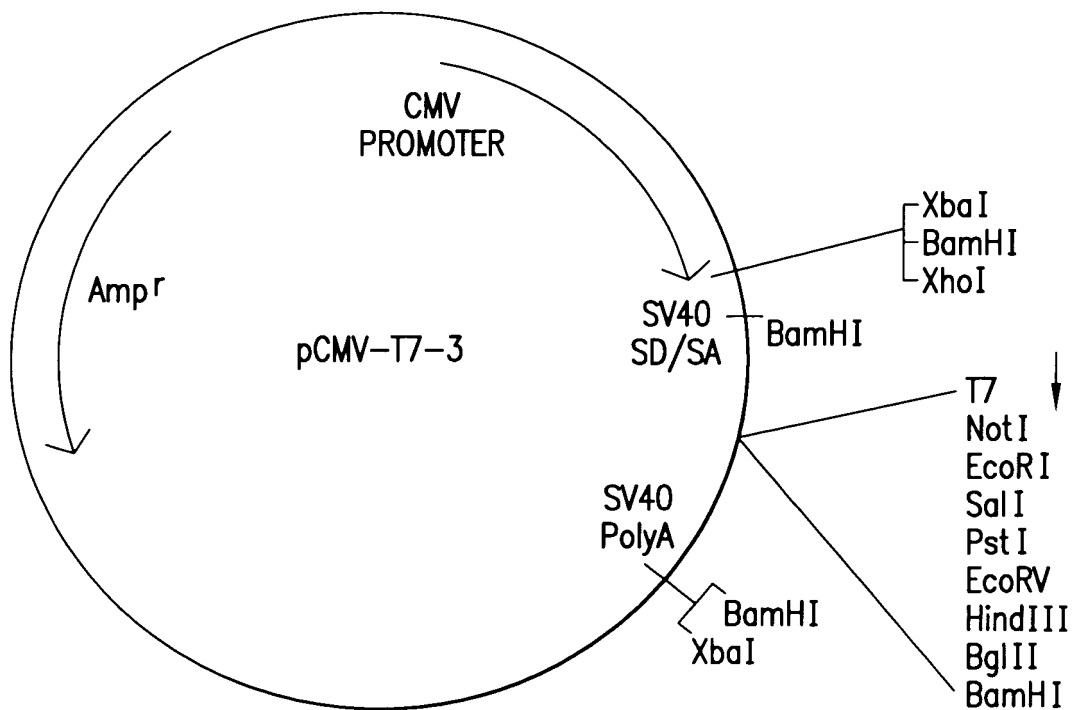
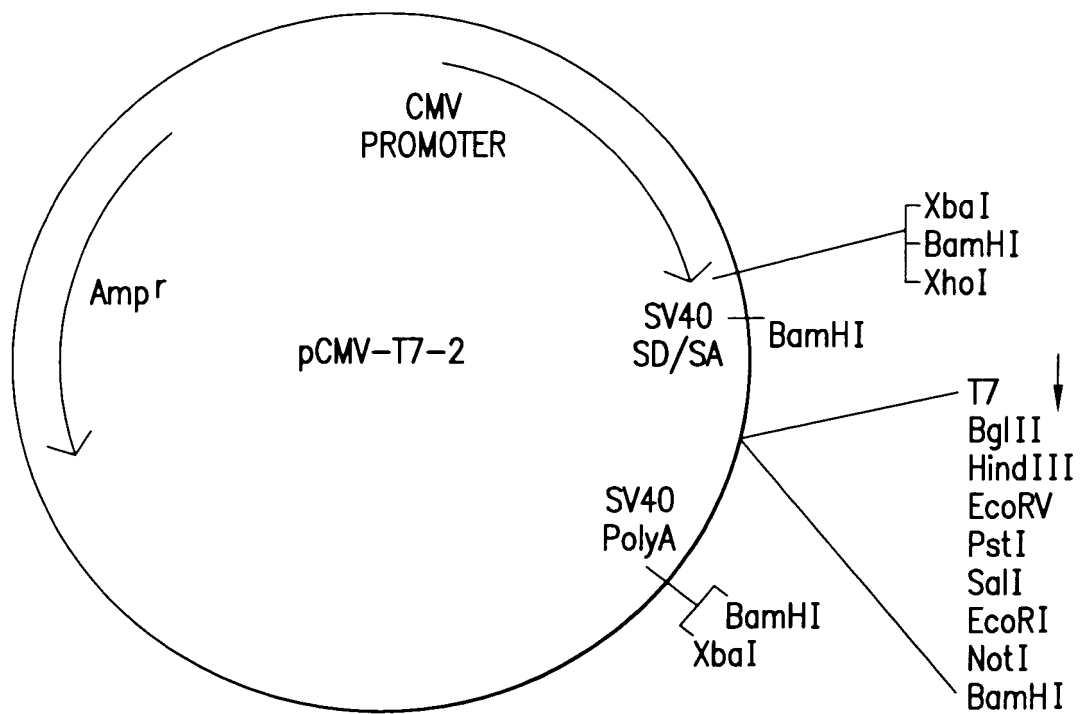


FIG.6